

## METEOROLOGICAL AND CLIMATOLOGICAL DATA FOR MARCH 1943

(Climate and Crop Weather Division, J. B. KINCE, in charge)

## AEROLOGICAL OBSERVATIONS

NOTICE.—Effective with the December 1942 issue, the publication of table 1 (RAOB summaries) was discontinued indefinitely.—EDITOR.

TABLE 2.—Free-air resultant winds based on pilot-balloon observations made near 5 p. m. (75th meridian time) during March, 1943. Directions given in degrees from north ( $N=360^{\circ}$ ,  $E=90^{\circ}$ ,  $S=180^{\circ}$ ,  $W=270^{\circ}$ ). Velocities in meters per second

Altitude (meters) m. s. l.	Abilene, Tex. (538 m.)			Albuquerque, N. Mex. (1,630 m.)			Atlanta, Ga. (299 m.)			Billings, Mont. (1,095 m.)			Bismarck, N. Dak. (512 m.)			Boise, Idaho (870 m.)			Brownsville, Tex. (7 m.)			Buffalo, N. Y. (220 m.)			Burlington, Vt. (132 m.)			Charleston, S. C. (17 m.)			Cincinnati, Ohio (152 m.)			Denver, Colo. (1,627 m.)			El Paso, Tex. (1,196 m.)		
	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity
Surface.....	30	183	2.4	31	266	3.5	27	201	1.2	29	249	3.6	28	294	2.7	31	9	0.5	28	118	3.9	31	246	4.8	29	290	0.7	29	185	0.8	27	239	2.1	29	16	0.9	31	260	4.9
500.....	30	172	2.7	31	224	2.5	27	222	1.5	29	222	1.5	28	287	4.2	31	308	6.1	28	133	4.6	31	250	7.6	29	256	2.9	29	209	1.9	27	242	3.7	29	16	0.9	31	260	4.9
1,000.....	30	172	2.7	31	224	2.5	27	222	1.5	29	222	1.5	28	287	4.2	31	308	6.1	28	133	4.6	31	250	7.6	29	256	2.9	29	209	1.9	27	242	3.7	29	16	0.9	31	260	4.9
1,500.....	30	172	2.7	31	224	2.5	27	222	1.5	29	222	1.5	28	287	4.2	31	308	6.1	28	133	4.6	31	250	7.6	29	256	2.9	29	209	1.9	27	242	3.7	29	16	0.9	31	260	4.9
2,000.....	30	172	2.7	31	224	2.5	27	222	1.5	29	222	1.5	28	287	4.2	31	308	6.1	28	133	4.6	31	250	7.6	29	256	2.9	29	209	1.9	27	242	3.7	29	16	0.9	31	260	4.9
2,500.....	30	172	2.7	31	224	2.5	27	222	1.5	29	222	1.5	28	287	4.2	31	308	6.1	28	133	4.6	31	250	7.6	29	256	2.9	29	209	1.9	27	242	3.7	29	16	0.9	31	260	4.9
3,000.....	30	172	2.7	31	224	2.5	27	222	1.5	29	222	1.5	28	287	4.2	31	308	6.1	28	133	4.6	31	250	7.6	29	256	2.9	29	209	1.9	27	242	3.7	29	16	0.9	31	260	4.9
4,000.....	30	172	2.7	31	224	2.5	27	222	1.5	29	222	1.5	28	287	4.2	31	308	6.1	28	133	4.6	31	250	7.6	29	256	2.9	29	209	1.9	27	242	3.7	29	16	0.9	31	260	4.9
5,000.....	30	172	2.7	31	224	2.5	27	222	1.5	29	222	1.5	28	287	4.2	31	308	6.1	28	133	4.6	31	250	7.6	29	256	2.9	29	209	1.9	27	242	3.7	29	16	0.9	31	260	4.9
6,000.....	30	172	2.7	31	224	2.5	27	222	1.5	29	222	1.5	28	287	4.2	31	308	6.1	28	133	4.6	31	250	7.6	29	256	2.9	29	209	1.9	27	242	3.7	29	16	0.9	31	260	4.9
8,000.....	30	172	2.7	31	224	2.5	27	222	1.5	29	222	1.5	28	287	4.2	31	308	6.1	28	133	4.6	31	250	7.6	29	256	2.9	29	209	1.9	27	242	3.7	29	16	0.9	31	260	4.9
10,000.....	30	172	2.7	31	224	2.5	27	222	1.5	29	222	1.5	28	287	4.2	31	308	6.1	28	133	4.6	31	250	7.6	29	256	2.9	29	209	1.9	27	242	3.7	29	16	0.9	31	260	4.9
12,000.....	30	172	2.7	31	224	2.5	27	222	1.5	29	222	1.5	28	287	4.2	31	308	6.1	28	133	4.6	31	250	7.6	29	256	2.9	29	209	1.9	27	242	3.7	29	16	0.9	31	260	4.9
14,000.....	30	172	2.7	31	224	2.5	27	222	1.5	29	222	1.5	28	287	4.2	31	308	6.1	28	133	4.6	31	250	7.6	29	256	2.9	29	209	1.9	27	242	3.7	29	16	0.9	31	260	4.9

Altitude (meters) m. s. l.	Ely, Nev. (1,910 m.)			Grand Junction, Colo. (1,413 m.)			Greensboro, N. C. (271 m.)			Havre, Mont. (787 m.)			Jacksonville, Fla. (18 m.)			Joliet, Ill. (178 m.)			Las Vegas, Nev. (573 m.)			Little Rock, Ark. (88 m.)			Medford, Oreg. (410 m.)			Miami, Fla. (15 m.)			Mobile, Ala. (66 m.)			Nashville, Tenn. (194 m.)			New York, N. Y. (15 m.)		
	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity
Surface.....	31	282	1.5	30	297	2.6	29	235	1.5	29	270	3.9	28	93	3.5	29	249	3.1	31	69	0.7	27	118	1.3	31	304	1.4	31	116	3.2	28	117	0.7	29	240	1.0	26	297	3.4
500.....	31	282	1.5	30	297	2.6	29	235	1.5	29	270	3.9	28	93	3.5	29	249	3.1	31	69	0.7	27	118	1.3	31	304	1.4	31	116	3.2	28	117	0.7	29	240	1.0	26	297	3.4
1,000.....	31	282	1.5	30	297	2.6	29	235	1.5	29	270	3.9	28	93	3.5	29	249	3.1	31	69	0.7	27	118	1.3	31	304	1.4	31	116	3.2	28	117	0.7	29	240	1.0	26	297	3.4
1,500.....	31	282	1.5	30	297	2.6	29	235	1.5	29	270	3.9	28	93	3.5	29	249	3.1	31	69	0.7	27	118	1.3	31	304	1.4	31	116	3.2	28	117	0.7	29	240	1.0	26	297	3.4
2,000.....	31	282	1.5	30	297	2.6	29	235	1.5	29	270	3.9	28	93	3.5	29	249	3.1	31	69	0.7	27	118	1.3	31	304	1.4	31	116	3.2	28	117	0.7	29	240	1.0	26	297	3.4
2,500.....	31	282	1.5	30	297	2.6	29	235	1.5	29	270	3.9	28	93	3.5	29	249	3.1	31	69	0.7	27	118	1.3	31	304	1.4	31	116	3.2	28	117	0.7	29	240	1.0	26	297	3.4
3,000.....	31	282	1.5	30	297	2.6	29	235	1.5	29	270	3.9	28	93	3.5	29	249	3.1	31	69	0.7	27	118	1.3	31	304	1.4	31	116	3.2	28	117	0.7	29	240	1.0	26	297	3.4
4,000.....	31	282	1.5	30	297	2.6	29	235	1.5	29	270	3.9	28	93	3.5	29	249	3.1	31	69	0.7	27	118	1.3	31	304	1.4	31	116	3.2	28	117	0.7	29	240	1.0	26	297	3.4
5,000.....	31	282	1.5	30	297	2.6	29	235	1.5	29	270	3.9	28	93	3.5	29	249	3.1	31	69	0.7	27	118	1.3	31	304	1.4	31	116	3.2	28	117	0.7	29	240	1.0	26	297	3.4
6,000.....	31	282	1.5	30	297	2.6	29	235	1.5	29	270	3.9	28	93	3.5	29	249	3.1	31	69	0.7	27	118	1.3	31	304	1.4	31	116	3.2	28	117	0.7	29	240	1.0	26	297	3.4
8,000.....	31	282	1.5	30	297	2.6	29	235	1.5	29	270	3.9	28	93	3.5	29	249	3.1	31	69	0.7	27	118	1.3	31	304	1.4	31	116	3.2	28	117	0.7	29	240	1.0	26	297	3.4
10,000.....	31	282	1.5	30	297	2.6	29	235	1.5	29	270	3.9	28	93	3.5	29	249	3.1	31	69	0.7	27	118	1.3	31	304	1.4	31	116	3.2	28	117	0.7	29	240	1.0	26	297	3.4
12,000.....	31	282	1.5	30	297	2.6	29	235	1.5	29	270	3.9	28	93	3.5	29	249	3.1	31	69	0.7	27	118	1.3	31	304	1.4	31	116	3.2	28	117	0.7	29	240	1.0	26	297	3.4
14,000.....	31	282	1.5	30	297	2.6	29	235	1.5	29	270	3.9	28	93	3.5	29	249	3.1	31	69	0.7	27	118	1.3	31	304	1.4	31	116	3.2	28	117	0.7	29	240	1.0	26	297	3.4

Altitude (meters) m.s.l.	Oakland, Calif. (8 m.)			Oklahoma City, Okla. (402 m.)			Omaha, Nebr. (306 m.)			Phoenix, Ariz. (388 m.)			Rapid City, S. Dak. (982 m.)			St. Louis, Mo. (181 m.)			St. Paul, Minn. (225 m.)			San Antonio, Tex. (240 m.)			San Diego, Calif. (15 m.)			Sault Ste. Marie, Mich. (230 m.)			Seattle, Wash. (12 m.)			Spokane Wash. (603 m.)			Washing- ton, D. C. (24 m.)		
	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity	Observations	Direction	Velocity			
Surface.....	30	250	3.5	26	168	2.1	29	243	2.0	31	261	1.8	30	353	2.4	28	229	2.0	29	262	2.1	31	103	2.3	30	280	3.8	25	303	3.2	28	219	2.5	31	216	1.4	29	250	2.1
500.....	30	264	2.2	26	171	2.6	29	246	2.6	31	248	2.4	30	353	2.4	28	250	3.0	29	268	3.0	31	127	1.9	30	286	3.3	25	302	3.8	28	217	2.6	31	221	1.3	29	251	3.6
1,000.....	27	243	1.3	26	190	3.4	28	237	5.1	31	253	3.0	30	353	2.4	27	255	7.7	24	263	5.5	28	144	0.7	28	253	2.3	21	282	6.8	23	208	2.6	31	232	3.6	29	254	5.4
1,500.....	23	289	1.8	25	229	3.1	28	260	6.6	31	247	3.4	30	309	3.8	25	261	7.0	19	267	7.5	25	249	2.4	26	296	3.1	18	286	10.6	20	208	2.9	28	237	4.8	27	257	7.6
2,000.....	20	292	3.4	24	225	5.4	24	266	9.9	29	256	4.4	29	301	7.1	23	266	9.3	18	273	7.5	20	257	5.3	20	293	4.5	15	281	11.9	19	227	2.3	25	241	6.0	23	270	10.6
2,500.....	19	289	3.5	22	260	8.7	20	278	10.7	28	265	6.1	23	290	9.7	20	270	9.1	20	276	12.3	18	251	7.2	17	300	5.0	15	287	13.9	16	271	2.1	18	280	5.1	19	276	12.1
3,000.....	19	281	5.0	22	266	12.5	18	285	12.8	27	269	8.0	22	286	12.3	18	274	10.3	16	276	12.6	17	261	9.0	16	291	6.4	14	292	15.0	15	287	4.8	14	318	6.3	17	280	15.0
4,000.....	17	293	6.7	21	270	15.5	14	289	14.2	26	277	10.2	20	290	14.1	16	283	12.6	12	287	14.5	15	270	13.3	13	302	7.4	12	294	17.7	10	303	6.8	11	320	11.0	15	273	18.5
5,000.....	16	294	8.0	18	271	19.4	11	283	17.3	22	283	13.4	17	288	15.9	11	289	13.9	9	287	15.4	14	274	14.8	13	300	9.5	10	292	19.5	11	307	14.7	13	288	19.3	12	290	18.6
6,000.....	16	287	10.5	17	276	24.3	3	283	17.3	22	279	15.3	14	289	17.6	11	289	13.9	9	287	15.4	13	268	16.1	10	307	8.7	10	292	19.5	11	307	14.7	13	288	19.3	12	290	18.6
8,000.....	14	284	14.4	11	278	22.0	3	283	17.3	22	272	22.3	3	283	17.3	11	289	13.9	9	287	15.4	13	268	16.1	10	307	8.7	10	292	19.5	11	307	14.7	13	288	19.3	12	290	18.6
10,000.....	13	289	22.8	11	278	22.0	3	283	17.3	22	272	22.3	3	283	17.3	11	289	13.9	9	287	15.4	13	268	16.1	10	307	8.7	10	292	19.5	11	307	14.7	13	288	19.3	12	290	18.6
12,000.....	13	289	22.8	11	278	22.0	3	283	17.3	22	272	22.3	3	283	17.3	11	289	13.9	9	287	15.4	13	268	16.1	10	307	8.7	10	292	19.5	11	307	14.7	13	288	19.3	12	290	18.6
14,000.....	13	289	22.8	11	278	22.0	3	283	17.3	22	272	22.3	3	283	17.3	11	289	13.9	9	287	15.4	13	268	16.1	10	307	8.7	10	292	19.5	11	307	14.7	13	288	19.3	12	290	18.6

